

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:30:58 ON 09 DEC 2008

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY SESSION

FULL ESTIMATED COST

0.63

0.63

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 09:32:46 ON 09 DEC 2008
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s xylanase?(10a)(thermophil? or hyperthermo? or thermotol? or thermostab?)

FILE 'MEDLINE'

2135 XYLANASE?

11292 THERMOPHIL?

2738 HYPERTHERMO?

2363 THERMOTOL?

7943 THERMOSTAB?

L1 228 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
MOSTAB?)

FILE 'SCISEARCH'

4817 XYLANASE?

18911 THERMOPHIL?

3726 HYPERTHERMO?

4260 THERMOTOL?

11335 THERMOSTAB?

L2 497 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
MOSTAB?)

FILE 'LIFESCI'

2306 XYLANASE?

10538 THERMOPHIL?

1990 HYPERTHERMO?

1514 THERMOTOL?

5018 THERMOSTAB?

L3 304 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
MOSTAB?)

FILE 'BIOTECHDS'

2913 XYLANASE?

6340 THERMOPHIL?

527 HYPERTHERMO?

539 THERMOTOL?

7492 THERMOSTAB?

L4 390 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
MOSTAB?)

FILE 'BIOSIS'

5090 XYLANASE?

25359 THERMOPHIL?

3225 HYPERTHERMO?

4034 THERMOTOL?

13536 THERMOSTAB?

L5 449 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
MOSTAB?)

FILE 'EMBASE'

```

        2028 XYLANASE?
        11487 THERMOPHIL?
        2457 HYPERTHERMO?
        2010 THERMOTOL?
        16024 THERMOSTAB?
L6      296 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
        MOSTAB?)

```

```

FILE 'HCAPLUS'
        8813 XYLANASE?
        24182 THERMOPHIL?
        3560 HYPERTHERMO?
        3228 THERMOTOL?
        23435 THERMOSTAB?
L7      730 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
        MOSTAB?)

```

```

FILE 'NTIS'
        51 XYLANASE?
        500 THERMOPHIL?
        33 HYPERTHERMO?
        45 THERMOTOL?
        201 THERMOSTAB?
L8      7 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
        MOSTAB?)

```

```

FILE 'ESBIOBASE'
        2261 XYLANASE?
        8032 THERMOPHIL?
        2413 HYPERTHERMO?
        1625 THERMOTOL?
        4910 THERMOSTAB?
L9      299 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
        MOSTAB?)

```

```

FILE 'BIOTECHNO'
        1496 XYLANASE?
        6914 THERMOPHIL?
        1350 HYPERTHERMO?
        1034 THERMOTOL?
        6565 THERMOSTAB?
L10     215 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
        MOSTAB?)

```

```

FILE 'WPIDS'
        1463 XYLANASE?
        3310 THERMOPHIL?
        160 HYPERTHERMO?
        221 THERMOTOL?
        6228 THERMOSTAB?
L11     50 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
        MOSTAB?)

```

```

TOTAL FOR ALL FILES
L12     3465 XYLANASE?(10A) (THERMOPHIL? OR HYPERTHERMO? OR THERMOTOL? OR THER
        MOSTAB?)

```

```

=> s xylanase?(10a)alkali?
FILE 'MEDLINE'
        2135 XYLANASE?
        107927 ALKALI?
L13     80 XYLANASE?(10A)ALKALI?

```

```

FILE 'SCISEARCH'
    4817 XYLANASE?
    167036 ALKALI?
L14      203 XYLANASE?(10A)ALKALI?

FILE 'LIFESCI'
    2306 XYLANASE?
    28149 ALKALI?
L15      127 XYLANASE?(10A)ALKALI?

FILE 'BIOTECHDS'
    2913 XYLANASE?
    10597 ALKALI?
L16      169 XYLANASE?(10A)ALKALI?

FILE 'BIOSIS'
    5090 XYLANASE?
    151124 ALKALI?
L17      173 XYLANASE?(10A)ALKALI?

FILE 'EMBASE'
    2028 XYLANASE?
    93130 ALKALI?
L18      109 XYLANASE?(10A)ALKALI?

FILE 'HCAPLUS'
    8813 XYLANASE?
    596189 ALKALI?
    444012 ALK
    26281 ALKY
    897361 ALKALI?
            (ALKALI? OR ALK OR ALKY)
L19      388 XYLANASE?(10A)ALKALI?

FILE 'NTIS'
    51 XYLANASE?
    13250 ALKALI?
L20      2 XYLANASE?(10A)ALKALI?

FILE 'ESBIOBASE'
    2261 XYLANASE?
    32350 ALKALI?
L21      141 XYLANASE?(10A)ALKALI?

FILE 'BIOTECHNO'
    1496 XYLANASE?
    21300 ALKALI?
L22      83 XYLANASE?(10A)ALKALI?

FILE 'WPIDS'
    1463 XYLANASE?
    321560 ALKALI?
L23      79 XYLANASE?(10A)ALKALI?

TOTAL FOR ALL FILES
L24      1554 XYLANASE?(10A) ALKALI?

=> s l12 and l24
FILE 'MEDLINE'
L25      23 L1 AND L13

```

```

FILE 'SCISEARCH'
L26          69 L2 AND L14

FILE 'LIFESCI'
L27          36 L3 AND L15

FILE 'BIOTECHDS'
L28          46 L4 AND L16

FILE 'BIOSIS'
L29          48 L5 AND L17

FILE 'EMBASE'
L30          33 L6 AND L18

FILE 'HCAPLUS'
L31          89 L7 AND L19

FILE 'NTIS'
L32          0 L8 AND L20

FILE 'ESBIODBASE'
L33          47 L9 AND L21

FILE 'BIOTECHNO'
L34          25 L10 AND L22

FILE 'WPIDS'
L35          6 L11 AND L23

TOTAL FOR ALL FILES
L36          422 L12 AND L24

=> s l36 not 2004-2008/PY
FILE 'MEDLINE'
      3254962 2004-2008/PY
              (20040000-20089999/PY)
L37          13 L25 NOT 2004-2008/PY

FILE 'SCISEARCH'
      6074569 2004-2008/PY
              (20040000-20089999/PY)
L38          42 L26 NOT 2004-2008/PY

FILE 'LIFESCI'
      776856 2004-2008/PY
L39          21 L27 NOT 2004-2008/PY

FILE 'BIOTECHDS'
      119822 2004-2008/PY
L40          33 L28 NOT 2004-2008/PY

FILE 'BIOSIS'
      2845241 2004-2008/PY
L41          28 L29 NOT 2004-2008/PY

FILE 'EMBASE'
      2810797 2004-2008/PY
L42          18 L30 NOT 2004-2008/PY

FILE 'HCAPLUS'
      6593747 2004-2008/PY

```

L43 51 L31 NOT 2004-2008/PY

FILE 'NTIS'

81634 2004-2008/PY

L44 0 L32 NOT 2004-2008/PY

FILE 'ESBIOBASE'

1609791 2004-2008/PY

L45 27 L33 NOT 2004-2008/PY

FILE 'BIOTECHNO'

586 2004-2008/PY

L46 25 L34 NOT 2004-2008/PY

FILE 'WPIDS'

5682064 2004-2008/PY

L47 3 L35 NOT 2004-2008/PY

TOTAL FOR ALL FILES

L48 261 L36 NOT 2004-2008/PY

=> dup rem l48

PROCESSING COMPLETED FOR L48

L49 89 DUP REM L48 (172 DUPLICATES REMOVED)

=> d tot

L49 ANSWER 1 OF 89 Elsevier BIOBASE COPYRIGHT 2008 Elsevier Science B.V. on
STN

AN 2008108664 ESBIOBASE

TI Molecular characterization of multiple xylanase producing
thermophilic/thermotolerant fungi isolated from
composting materials

AU Sharma M.; Chadha B.S.; Kaur M.; Ghatore S.K.; Saini H.S.

CS B. S. Chadha, Department of Microbiology, Guru Nanak Dev University,
Amritsar, Punjab, India.

E-mail: chadhab@yahoo.com

SO Letters in Applied Microbiology, (2008), 46/5 (526-535), 32 reference(s)
CODEN: LAMIE7 ISSN: 0266-8254 E-ISSN: 1472-765X

DT Journal; Article

CY United Kingdom

LA English

SL English

L49 ANSWER 2 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 1

TI Thermostable and alkaline-tolerant microbial

cellulase-free xylanases produced from agricultural wastes and
the properties required for use in pulp bleaching bioprocesses: a review
SO PROCESS BIOCHEMISTRY, (30 APR 2003) Vol. 38, No. 9, pp. 1327-1340.
ISSN: 0032-9592.

AU Techapun C; Poosaran N; Watanabe M; Sasaki K (Reprint)

AN 2003:543080 SCISEARCH

L49 ANSWER 3 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN

TI Production of xylanases from rice bran by Streptomyces actuosus A-151

SO ENZYME AND MICROBIAL TECHNOLOGY, (2 DEC 2003) Vol. 33, No. 7, pp. 917-925.
ISSN: 0141-0229.

AU Wang S L (Reprint); Yen Y H; Shih I L; Chang A C; Chang W T; Wu W C; Chai
Y D

AN 2003:1069584 SCISEARCH

L49 ANSWER 4 OF 89 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
 TI Characterization of a family 11 xylanase from *Bacillus subtilis* B230 used
 for paper bleaching.
 SO Acta Crystallographica Section D Biological Crystallography, (April 2003)
 Vol. 59, No. 4, pp. 627-636. print.
 ISSN: 0907-4449.
 AU Oakley, Aaron J.; Heinrich, Tatjana; Thompson, Colin A.; Wilce, Matthew C.
 J. [Reprint Author]
 AN 2003:253581 BIOSIS

L49 ANSWER 5 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
 STN
 TI Effect of *Bacillus circulans* D1 thermostable xylanase
 on biobleaching of eucalyptus kraft pulp
 SO APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, (SPR 2003) Vol. 105, pp. 393-401.
 ISSN: 0273-2289.
 AU Bocchini D A; Damiano V B; Gomes E; Da Silva A (Reprint)
 AN 2003:398916 SCISEARCH

L49 ANSWER 6 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Application of thermotolerant and alkaline-tolerant
 xylanase produced from agricultural wastes for pulp bleaching
 process and reductions of amounts of chlorine compounds in wastewater
 SO Mizu Shori Gijutsu (2003), 44(6), 271-278
 CODEN: MSYGAO; ISSN: 0026-7015
 AU Sasaki, Ken; Techapun, Charin; Poosaran, Niyatat
 AN 2003:487363 HCAPLUS
 DN 139:135090

L49 ANSWER 7 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Advances in alkaline and thermophilic
 xylanases
 SO Zhongguo Shengwu Gongcheng Zazhi (2003), 23(7), 72-75, 88
 CODEN: ZSGZAW; ISSN: 1671-8135
 AU Xie, Fuhong; Li, Wenpeng; Zhang, Keqin
 AN 2004:313894 HCAPLUS
 DN 141:67100

L49 ANSWER 8 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
 STN
 TI Overproduction of an alkali- and thermo-stable xylanase
 in tobacco chloroplasts and efficient recovery of the enzyme
 SO MOLECULAR BREEDING, (JAN 2003) Vol. 11, No. 1, pp. 59-67.
 ISSN: 1380-3743.
 AU Leelavathi S; Gupta N; Maiti S; Ghosh A; Reddy V S (Reprint)
 AN 2003:142329 SCISEARCH

L49 ANSWER 9 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
 TI Bleaching of chemical pulp involves, exposing chemical pulp to acidic
 bleaching stage to produce partially bleached pulp and treating with
 thermophilic, alkalophilic xylanase in alkaline
 extraction stage at preset condition;
 pulp bleaching using recombinant enzyme
 AU TOLAN J; POPOVICI C; FOODY P J
 AN 2003-01501 BIOTECHDS
 PI WO 2002052100 4 Jul 2002

L49 ANSWER 10 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
 TI Novel xylanase activity protein, useful in bleaching process of pulp and
 in food and animal feed industry, has enhanced thermostability and
 alkalophilicity;

recombinant enzyme production via plasmid expression useful for animal feedstuff

AU BENTZIE J; DAHIYAT B
AN 2003-01486 BIOTECHDS
PI WO 2002038746 16 May 2002

L49 ANSWER 11 OF 89 MEDLINE on STN DUPLICATE 3

TI Thermostable and alkaline-tolerant cellulase-free
xylanase produced by thermotolerant *Streptomyces* sp.
Abl06.

SO Journal of bioscience and bioengineering, (2002) Vol. 93, No. 4, pp.
431-3.
Journal code: 100888800. ISSN: 1389-1723.

AU Techapun Charin; Charoenrat Thanakorn; Poosaran Naiyatat; Watanabe
Masanori; Sasak Ken
AN 2005557533 MEDLINE

L49 ANSWER 12 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN

TI Employing chimeric xylanases to identify regions of an
alkaline xylanase participating in enzyme activity at
basic pH

SO JOURNAL OF BIOSCIENCE AND BIOENGINEERING, (NOV 2002) Vol. 94, No. 5, pp.
395-400.
ISSN: 1389-1723.

AU Nishimoto M; Kitaoka M (Reprint); Hayashi K
AN 2003:96848 SCISEARCH

L49 ANSWER 13 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN

TI Enzymatic properties of a neutral endo-1,3(4)-beta-xylanase Xyl II from
Bacillus subtilis

SO JOURNAL OF BIOTECHNOLOGY, (11 APR 2002) Vol. 94, No. 3, pp. 265-275.
ISSN: 0168-1656.

AU Sa-Pereira P (Reprint); Costa-Ferreira M; Aires-Barros M R
AN 2002:276532 SCISEARCH

L49 ANSWER 14 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 4

TI Cellulase-free thermostable alkaline xylanase
from thermophilic and alkalophilic *Bacillus* sp JB-99

SO JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY, (FEB 2002) Vol. 12, No. 1, pp.
153-156.
ISSN: 1017-7825.

AU Johnvesly B; Virupakshi S; Patil G N; Ramalingam; Naik G R (Reprint)
AN 2002:241601 SCISEARCH

L49 ANSWER 15 OF 89 MEDLINE on STN DUPLICATE 5

TI Engineering of multiple arginines into the Ser/Thr surface of *Trichoderma*
reesei endo-1,4-beta-xylanase II increases the
thermotolerance and shifts the pH optimum towards alkaline
pH.

SO Protein engineering, (2002 Feb) Vol. 15, No. 2, pp. 141-5.
Journal code: 8801484. ISSN: 0269-2139.

AU Turunen Ossi; Vuorio Mika; Fenel Fred; Leisola Matti
AN 2002184634 MEDLINE

L49 ANSWER 16 OF 89 MEDLINE on STN DUPLICATE 6

TI The endoxylanases from family 11: computer analysis of protein sequences
reveals important structural and phylogenetic relationships.

SO Journal of biotechnology, (2002 May 9) Vol. 95, No. 2, pp. 109-31.
Journal code: 8411927. ISSN: 0168-1656.

AU Sapag Amalia; Wouters Johan; Lambert Christophe; de Ioannes Pablo;
Eyzaguirre Jaime; Depiereux Eric
AN 2002179500 MEDLINE

L49 ANSWER 17 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 7
TI Optimization of thermostable and alkaline-tolerant
cellulase-free xylanase production from agricultural waste by
thermotolerant *Streptomyces* sp Ab106, using the central composite
experimental design
SO BIOCHEMICAL ENGINEERING JOURNAL, (NOV 2002) Vol. 12, No. 2, pp. 99-105.
ISSN: 1369-703X.
AU Techapun C; Charoenrat T; Watanabe M; Sasaki K (Reprint); Poosaran N
AN 2002:870007 SCISEARCH

L49 ANSWER 18 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Computer directed High-Throughput Screening for improved enzymatic
catalysis: Towards the rationale design of a thermostable,
alkaliphilic xylanase
SO Abstracts of Papers, 223rd ACS National Meeting, Orlando, FL, United
States, April 7-11, 2002 (2002), CELL-092 Publisher: American Chemical
Society, Washington, D. C.
CODEN: 69CKQP
AU Bentzien, Jorg; Hayes, Robert; Muchhal, Umesh; O'Keefe, Donald; Dahiyat,
Bassil
AN 2002:186502 HCAPLUS

L49 ANSWER 19 OF 89 MEDLINE on STN DUPLICATE 8
TI Properties and application of a partially purified alkaline
xylanase from an alkalophilic fungus *Aspergillus nidulans* KK-99.
SO Bioresource technology, (2002 Oct) Vol. 85, No. 1, pp. 39-42.
Journal code: 9889523. ISSN: 0960-8524.
AU Taneja Kavita; Gupta Saurabh; Kuhad Ramesh Chander
AN 2002397711 MEDLINE

L49 ANSWER 20 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI In-situ solid-state fermentation and utilization of xylanase in pulp
bleaching
SO Abstracts of Papers, 223rd ACS National Meeting, Orlando, FL, United
States, April 7-11, 2002 (2002), CELL-039 Publisher: American Chemical
Society, Washington, D. C.
CODEN: 69CKQP
AU Szendefy, Judit; Szakacs, George; Christov, Lew
AN 2002:186449 HCAPLUS

L49 ANSWER 21 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Use of biological agents for pulping and bleaching in pulp and paper
industry
SO IPPTA (2002), 14(4), 29-31
CODEN: IPPTDO; ISSN: 0379-5462
AU Sapre, M.; Jha, H.; Patil, M. B.; Dhake, J. D.
AN 2003:27382 HCAPLUS
DN 138:370507

L49 ANSWER 22 OF 89 LIFESCI COPYRIGHT 2008 CSA on STN
TI Engineering of multiple arginines into the Ser/Thr surface of *Trichoderma*
reesei endo-1,4-[beta]-xylanase II increases the
thermotolerance and shifts the pH optimum towards alkaline
pH
SO Protein Engineering, (20020200) vol. 15, no. 2, 141.
ISSN: 0269-2139.
AU Turunen, Ossi; Vuorio, Mika; Fenel, Fred; Leisola, Matti

AN 2008:69021 LIFESCI

L49 ANSWER 23 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Recombinant Bacillus and fermentation process for preparation of
thermostable alkali-stable xylanase

SO Indian, 35 pp.

CODEN: INXXAP

IN Gupta, Naveen; Ghosh, Amit

AN 2004:869800 HCAPLUS

DN 141:313041

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IN 185709	A1	20010414	IN 1996-DE2308	19961025

L49 ANSWER 24 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN

TI Directed evolution to produce an alkalophilic variant from a
Neocallimastix patriciarum xylanase

SO CANADIAN JOURNAL OF MICROBIOLOGY, (DEC 2001) Vol. 47, No. 12, pp.

1088-1094.

ISSN: 0008-4166.

AU Chen Y L; Tang T Y; Cheng K J (Reprint)

AN 2002:32328 SCISEARCH

L49 ANSWER 25 OF 89 WPIDS COPYRIGHT 2008 THOMSON REUTERS on STN

TI Non naturally occurring XA protein with enhanced thermophilicity
, alkalophilicity or thermostability relative to the naturally
occurring Bacillus circulans xylanase is used in an agent for
bleaching pulp

PI WO 2000068396 A2 20001116 (200066)* EN 114[20]
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
OA PT SD SE SL SZ TZ UG ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK
LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI
SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

AU 2000051327 A 20001121 (200112) EN

EP 1179075 A2 20020213 (200219) EN

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI

JP 2002543791 W 20021224 (200313) JA 156

IN BENTZIEN J M

L49 ANSWER 26 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN

TI Purification and partial characterization of a basic xylanase produced by
thermoalkaliphilic Bacillus sp strain TAR-1

SO BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY, (APR 2000) Vol. 64, No. 4, pp.
887-890.

ISSN: 0916-8451.

AU Takahashi H; Nakai R; Nakamura S (Reprint)

AN 2000:340808 SCISEARCH

L49 ANSWER 27 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN
DUPLICATE 9

TI Enhanced production, purification and characterisation of a novel
cellulase-poor thermostable, alkalitolerant
xylanase from Bacillus circulans AB 16

SO PROCESS BIOCHEMISTRY, (MAR 2000) Vol. 35, No. 8, pp. 849-856.

ISSN: 0032-9592.

AU Dhillon A; Gupta J K; Khanna S (Reprint)

AN 2000:266722 SCISEARCH

L49 ANSWER 28 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN
TI Production and characterization of thermostable xylanase
and pectinase from *Streptomyces* sp QG-11-3
SO JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY, (JUN 2000) Vol. 24,
No. 6, pp. 396-402.
ISSN: 1367-5435.
AU Beg Q K (Reprint); Bhushan B; Kapoor M; Hoondal G S
AN 2000:616369 SCISEARCH

L49 ANSWER 29 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN
TI Isolation, purification and characterization of xylanase from
Staphylococcus sp. SG-13 and its application in biobleaching of kraft pulp
SO JOURNAL OF APPLIED MICROBIOLOGY, (FEB 2000) Vol. 88, No. 2, pp. 325-334.
ISSN: 1364-5072.
AU Gupta S; Bhushan B; Hoondal G S (Reprint)
AN 2000:224873 SCISEARCH

L49 ANSWER 30 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN
TI Production of a thermostable alkali-tolerant
xylanase from *Bacillus circulans* AB 16 grown on wheat straw
SO WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, (JUN 2000) Vol. 16, No. 4,
pp. 325-327.
ISSN: 0959-3993.
AU Dhillon A; Khanna S (Reprint)
AN 2000:698100 SCISEARCH

L49 ANSWER 31 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN
TI A cellulase-poor, thermostable, alkalitolerant
xylanase produced by *Bacillus circulans* AB 16 grown on rice straw
and its application in biobleaching of eucalyptus pulp
SO BIORESOURCE TECHNOLOGY, (JUL 2000) Vol. 73, No. 3, pp. 273-277.
ISSN: 0960-8524.
AU Dhillon A; Gupta J K; Jauhari B M; Khanna S (Reprint)
AN 2000:287403 SCISEARCH

L49 ANSWER 32 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI A new record of a bacterial alkaline thermostable
xylanase from an Egyptian soil
SO Egyptian Journal of Biotechnology (2000), 7, 193-205
CODEN: EJBIF7; ISSN: 1110-6093
AU Shabeb, M. S. A.
AN 2000:194949 HCAPLUS
DN 133:2286

L49 ANSWER 33 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN
TI Xylanase activity and thermotransformation during the thermogenic phase of
industrial composting in aerated trenches
SO WASTE MANAGEMENT & RESEARCH, (APR 2000) Vol. 18, No. 2, pp. 174-183.
ISSN: 0734-242X.
AU Lyon P F; Beffa T (Reprint); Fischer J L; Aragno M
AN 2000:271416 SCISEARCH

L49 ANSWER 34 OF 89 MEDLINE on STN
TI Homology model of a novel xylanase: molecular basis for high-
thermostability and alkaline stability.
SO Journal of biomolecular structure & dynamics, (2000 Aug) Vol. 18, No. 1,

pp. 137-44.
Journal code: 8404176. ISSN: 0739-1102.
AU Mande S S; Gupta N; Ghosh A; Mande S C
AN 2000465734 MEDLINE

L49 ANSWER 35 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 14
TI Immobilization of alkaliphilic Bacillus sp cells for
xylanase production using batch and continuous culture
SO APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, (MAY 2000) Vol. 87, No. 2, pp.
95-101.
ISSN: 0273-2289.
AU Mamo G; Gessesse A (Reprint)
AN 2000:607893 SCISEARCH

L49 ANSWER 36 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN
TI Electroelution as a simple and fast protein purification method: isolation
of an extracellular xylanase from Bacillus sp CCM 966
SO ENZYME AND MICROBIAL TECHNOLOGY, (JUL 2000) Vol. 27, No. 1-2, pp. 95-99.
ISSN: 0141-0229.
AU Sa-Pereira P (Reprint); Duarte J; Costa-Ferreira M
AN 2000:486930 SCISEARCH

L49 ANSWER 37 OF 89 MEDLINE on STN DUPLICATE 15
TI Overproduction and characterization of seleno-methionine xylanase T-6.
SO Journal of biotechnology, (2000 Feb 28) Vol. 78, No. 1, pp. 83-6.
Journal code: 8411927. ISSN: 0168-1656.
AU Mechaly A; Teplitsky A; Belakhov V; Baasov T; Shoham G; Shoham Y
AN 2000167558 MEDLINE

L49 ANSWER 38 OF 89 MEDLINE on STN DUPLICATE 16
TI Extracellular xylanase production by two thermophilic
alkali-tolerant Bacillus strains in batch and continuous cultures.
SO Zeitschrift fur Naturforschung. C, Journal of biosciences, (2000 Jan-Feb)
Vol. 55, No. 1-2, pp. 66-9.
Journal code: 8912155. ISSN: 0341-0382.
AU Emanuilova E I; Dimitrov P L; Mandeve R D; Kambourova M S; Engibarov S A
AN 2000201709 MEDLINE

L49 ANSWER 39 OF 89 MEDLINE on STN DUPLICATE 17
TI Xylanase II from an alkaliphilic thermophilic
Bacillus with a distinctly different structure from other
xylanases: evolutionary relationship to alkaliphilic
xylanases.
SO Biochemical and biophysical research communications, (1999 Oct 5) Vol.
263, No. 3, pp. 640-5.
Journal code: 0372516. ISSN: 0006-291X.
AU Kulkarni N; Lakshmikumaran M; Rao M
AN 1999443715 MEDLINE

L49 ANSWER 40 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 18
TI High-level xylanase production by an alkaliphilic
Bacillus sp by using solid-state fermentation
SO ENZYME AND MICROBIAL TECHNOLOGY, (15 JUL 1999) Vol. 25, No. 1-2, pp.
68-72.
ISSN: 0141-0229.
AU Gessesse A (Reprint); Mamo G
AN 1999:537357 SCISEARCH

L49 ANSWER 41 OF 89 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on

STN

TI A thermophilic alkaline xylanase produced by
thermophilic alkalophilic *Bacillus* sp. strain NM-118.

SO Laskin, A. I. [Editor]; Li, G.-X. [Editor]; Yu, Y.-T. [Editor]. Ann. N. Y.
Acad. Sci., (1998) pp. 428-430. Annals of the New York Academy of
Sciences; Enzyme engineering XIV. print.
Publisher: New York Academy of Sciences, 2 East 63rd Street, New York, New
York 10021, USA. Series: Annals of the New York Academy of Sciences.
Meeting Info.: Fourteenth International Enzyme Engineering Conference.
Beijing, China. October 12-17, 1997. Engineering Foundation, New York.
CODEN: ANYAA9. ISSN: 0077-8923. ISBN: 1-57331-149-9 (cloth), 1-57331-150-2
(paper).

AU Mendoza, N. S.; Bigol, M. B.; Unciano, N. M.; Almonte, B. F.; Borromeo, C.
C.

AN 1999:154665 BIOSIS

L49 ANSWER 42 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 19

TI Purification and properties of two thermostable alkaline
xylanases from an alkaliphilic *Bacillus* sp.

SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (SEP 1998) Vol. 64, No. 9, pp.
3533-3535.
ISSN: 0099-2240.

AU Gessesse A (Reprint)

AN 1998:704981 SCISEARCH

L49 ANSWER 43 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 20

TI A thermophilic alkaline xylanase produced by
thermophilic alkalophilic *Bacillus* sp. strain NM-118

SO ENZYME ENGINEERING XIV, (1998) Vol. 864, pp. 428-430.
ISSN: 0077-8923.

AU Mendoza N S (Reprint); Bigol M B; Unciano N M; Almonte B F; Borromeo C C

AN 1999:106141 SCISEARCH

L49 ANSWER 44 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Isolation and expression of genes for hemicellulases from extremely
thermophilic culturable and unculturable bacteria

SO ACS Symposium Series (1998), 687(Enzyme Applications in Fiber Processing),
155-167
CODEN: ACSMC8; ISSN: 0097-6156

AU Bergquist, P. L.; Gibbs, M. D.; Saul, D. J.; Reeves, R. A.; Morris, D. D.;
Te'o, V. S. J.

AN 1998:344961 HCAPLUS

DN 129:37189

OREF 129:7724h,7725a

L49 ANSWER 45 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN

TI A thermophilic alkaline xylanase produced by
a thermophilic alkalophilic *Bacillus* sp. strain NM-118

SO Biotechnology for Sustainable Utilization of Biological Resources in the
Tropics (1998), 12, 48-54
CODEN: BSUTFT

AU Mendoza, Natividad S.; Bigol, Mario B.; Unciano, Noel M.; Almonte,
Bienvenido F.; Borromeo, Cynthia C.

AN 1999:710555 HCAPLUS

DN 132:34831

L49 ANSWER 46 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN

TI Purification and characterization of a thermostable
xylanase from *Bacillus amyloliquefaciens*

SO ENZYME AND MICROBIAL TECHNOLOGY, (JAN 1998) Vol. 22, No. 1, pp. 42-49.
ISSN: 0141-0229.

AU Breccia J D (Reprint); Sineriz F; Baigori M D; Castro G R; HattiKaul R
AN 1997:925376 SCISEARCH

L49 ANSWER 47 OF 89 MEDLINE on STN DUPLICATE 21
TI Crystallization and preliminary X-ray analysis of the thermostable
alkaline-tolerant xylanase from *Bacillus*
stearothermophilus T-6.

SO Acta crystallographica. Section D, Biological crystallography, (1997 Sep
1) Vol. 53, No. Pt 5, pp. 608-11.
Journal code: 9305878. ISSN: 0907-4449.

AU Teplitsky A; Feinberg H; Gilboa R; Lapidot A; Mechaly A; Stojanoff V;
Capel M; Shoham Y; Shoham G
AN 2004395392 MEDLINE

L49 ANSWER 48 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 22
TI Isolation and screening for alkaline thermostable
xylanases

SO JOURNAL OF BASIC MICROBIOLOGY, (1997) Vol. 37, No. 6, pp. 431-437.
ISSN: 0233-111X.

AU Subramaniyan S; Prema P (Reprint); Ramakrishna S V
AN 1998:8564 SCISEARCH

L49 ANSWER 49 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN
TI Cloning, sequencing and expression of a thermostable,
alkaline-tolerant xylanase from *Dictyoglomus*
thermophilum Rt46B.1: Potential for use as a kraft pulp
pre-bleaching aid

SO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, (13 APR 1997) Vol.
213, Part 1, pp. 102-CELL.
ISSN: 0065-7727.

AU Gibbs M D (Reprint); Bergquist P L
AN 1997:271236 SCISEARCH

L49 ANSWER 50 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Cloning, sequencing and expression of a thermostable,
alkaline-tolerant xylanase from *Dictyoglomus*
thermophilum Rt46B.1: Potential for use as a kraft pulp
pre-bleaching aid

SO Book of Abstracts, 213th ACS National Meeting, San Francisco, April 13-17
(1997), CELL-102 Publisher: American Chemical Society, Washington, D. C.
CODEN: 64A0AA

AU Gibbs, Moreland D.; Bergquist, Peter L.
AN 1997:159145 HCAPLUS

L49 ANSWER 51 OF 89 MEDLINE on STN DUPLICATE 23
TI Structural basis of the properties of an industrially relevant
thermophilic xylanase.

SO Proteins, (1997 Sep) Vol. 29, No. 1, pp. 77-86.
Journal code: 8700181. ISSN: 0887-3585.

AU Harris G W; Pickersgill R W; Connerton I; Debeire P; Touzel J P; Breton C;
Perez S
AN 1997440650 MEDLINE

L49 ANSWER 52 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Isolation and expression of genes for hemicellulases from extremely
thermophilic culturable and unculturable bacteria

SO Book of Abstracts, 213th ACS National Meeting, San Francisco, April 13-17
(1997), CELL-057 Publisher: American Chemical Society, Washington, D. C.

CODEN: 64AOAA

AU Bergquist, Peter L.; Gibbs, Moreland D.; Saul, David J.; Reeves, Rosalind A.; Morris, Daniel; Te'o, V. S. Junior

AN 1997:159100 HCAPLUS

L49 ANSWER 53 OF 89 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN

TI Isolation and characterization of xylan-degrading alkali-tolerant thermophiles.

SO FEMS Microbiology Letters, (Dec. 1, 1997) Vol. 157, No. 1, pp. 27-30. print.

CODEN: FMLED7. ISSN: 0378-1097.

AU Dimitrov, Plamen L.; Kambourova, Margarita S.; Mandeva, Rossica D.; Emanuilova, Elka I. [Reprint author]

AN 1998:233280 BIOSIS

L49 ANSWER 54 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Regulation, purification and characterisation of thermostable and potentially useful alkaline xylanases of a thermophilic *Bacillus* sp. strain XT2

SO Pakistan Journal of Biochemistry and Molecular Biology (1997), 30(1-2), 1-21

CODEN: PUBBF5

AU Rizvi, Syed Muhammad Aslam; Akhtar, M. Saleem; Saleem, Mahjabeen; Akhtar, M. Waheed

AN 1999:587785 HCAPLUS

DN 132:89840

L49 ANSWER 55 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN

TI Cloning, sequencing and expression of a thermostable alkaline-tolerant xylanase from *Dictyoglomus thermophilum* Rt46B.1: potential for use as a Kraft pulp pre-bleaching aid;

endo-1,4-beta-D-xylanase gene cloning and recombinant enzyme characterization (conference abstract)

SO Abstr.Pap.Am.Chem.Soc.; (1997) 213 Meet., Pt.1, CELL102

CODEN: ACSRAL ISSN: 0065-7727

American Chemical Society, 213th ACS National Meeting, San Francisco, CA, 13-17 April, 1997.

AU Gibbs M D; Bergquist P L

AN 1997-12922 BIOTECHDS

L49 ANSWER 56 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN

TI Development and present status of hemicellulases used in pulp bleaching; new thermostable alkaline endo-1,4-beta-D-xylanase (conference abstract)

SO Abstr.Pap.Am.Chem.Soc.; (1997) 213 Meet., Pt.1, BIOT044

CODEN: ACSRAL ISSN: 0065-7727

American Chemical Society, 213th ACS National Meeting, San Francisco, CA, 13-17 April, 1997.

AU Edelmann K K H; Timonen M P L

AN 1997-12975 BIOTECHDS

L49 ANSWER 57 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN

TI Purification and characterization of two xylanases from alkalophilic *Cephalosporium* sp. strain RYM-202;

thermostable alkaline endo-1,4-beta-D-xylanase production

SO Appl.Environ.Microbiol.; (1996) 62, 9, 3480-82

CODEN: AEMIDF ISSN: 0099-2240

AU Kang M K; Maeng P J; *Rhee Y H

AN 1996-13703 BIOTECHDS

L49 ANSWER 58 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
 TI Purification and characterization of an alkaline
 xylanase from *Streptomyces viridosporus* T7A;
 thermostable alkaline endo-1,4-beta-D-
 xylanase isolation (conference abstract)
 SO Abstr.Gen.Meet.Am.Soc.Microbiol.; (1996) 96 Meet., 566
 CODEN: 0005P ISSN: 0067-2777
 American Society for Microbiology, 96th General Meeting, New Orleans, LA,
 19-23 May, 1996.
 AU Magnuson T S
 AN 1996-13698 BIOTECHDS

L49 ANSWER 59 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Cloning, sequencing and expression of an alkaline tolerant
 xylanase gene from the extreme thermophile *Dictyoglomus*
thermophilum sp. Rt46B.1: potential for use as a kraft pulp
 pre-bleaching aid
 SO Biotechnology in the Pulp and Paper Industry: Recent Advances in Applied
 and Fundamental Research, Proceedings of the International Conference on
 Biotechnology in the Pulp and Paper Industry, 6th, Vienna, June 11-15,
 1995 (1996), Meeting Date 1995, 509-512. Editor(s): Srebotnik, Ewald;
 Messner, Kurt. Publisher: Facultas-Universitaetsverlag, Vienna, Austria.
 CODEN: 63OUAN
 AU Gibbs, M. D.; Berquist, P. L.
 AN 1996:683692 HCAPLUS
 DN 126:28341
 OREF 126:5717a, 5720a

L49 ANSWER 60 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Hemicellulolytic enzymes from extremely thermophilic bacteria -
 application of molecular genetics to pulp bleaching
 SO Biotechnology in the Pulp and Paper Industry: Recent Advances in Applied
 and Fundamental Research, Proceedings of the International Conference on
 Biotechnology in the Pulp and Paper Industry, 6th, Vienna, June 11-15,
 1995 (1996), Meeting Date 1995, 497-502. Editor(s): Srebotnik, Ewald;
 Messner, Kurt. Publisher: Facultas-Universitaetsverlag, Vienna, Austria.
 CODEN: 63OUAN
 AU Bergquist, P. L.; Gibbs, M. D.; Saul, D. S.; Te'o, V. S. J.; Reeves, R.
 A.; Morris, D.
 AN 1996:683670 HCAPLUS
 DN 126:20298
 OREF 126:4171a, 4174a

L49 ANSWER 61 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
 TI Extremophiles;
 e.g. thermophilic bacterium, psychrophilic bacterium, alkalophilic
 bacterium, acidophilic bacterium, halophilic bacterium, barophilic
 bacterium, etc. (conference report)
 SO Trends Biotechnol.; (1996) 14, 11, 415-17
 CODEN: TRBIDM ISSN: 0167-9430
 Extremophiles, 1st International Congress, Estoril, Portugal, 2-6 June,
 1996.
 AU van der Oost J; de Vos W M; Antranikian G
 AN 1996-14568 BIOTECHDS

L49 ANSWER 62 OF 89 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 25
 TI Biochemistry and genetics of microbial xylanases
 SO CURR. OPIN. BIOTECHNOL., (1996) vol. 7, no. 3, pp. 337-342.
 ISSN: 0958-1669.
 AU Jeffries, T.W.
 AN 97:30694 LIFESCI

L49 ANSWER 63 OF 89 MEDLINE on STN DUPLICATE 26
 TI Overexpression and single-step purification of a thermostable
 xylanase from *Bacillus stearothermophilus* T-6.
 SO Journal of biotechnology, (1996 Nov 15) Vol. 51, No. 3, pp. 259-64.
 Journal code: 8411927. ISSN: 0168-1656.
 AU Lapidot A; Mechaly A; Shoham Y
 AN 1997142531 MEDLINE

L49 ANSWER 64 OF 89 MEDLINE on STN DUPLICATE 27
 TI Purification and characterization of two low molecular mass
 alkaline xylanases from *Fusarium oxysporum* F3.
 SO Journal of biotechnology, (1996 Nov 1) Vol. 51, No. 2, pp. 181-9.
 Journal code: 8411927. ISSN: 0168-1656.
 AU Christakopoulos P; Nerinckx W; Kekos D; Macris B; Claeysens M
 AN 1997141626 MEDLINE

L49 ANSWER 65 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
 STN DUPLICATE 28
 TI Application of xylanase from alkaliphilic
 thermophilic *Bacillus* sp NCIM 59 in biobleaching of bagasse pulp
 SO JOURNAL OF BIOTECHNOLOGY, (1 NOV 1996) Vol. 51, No. 2, pp. 167-173.
 ISSN: 0168-1656.
 AU Kulkarni N (Reprint); Rao M
 AN 1996:853879 SCISEARCH

L49 ANSWER 66 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Screening, purification and characterization of novel xylanases used in
 pulp bleaching
 SO Chemistry and Processing of Wood and Plant Fibrous Materials, [Cellucon
 '94], Bangor, UK, 1994 (1996), Meeting Date 1994, 127-132. Editor(s):
 Kennedy, John Frederick; Phillips, Glyn Owain; Williams, Peter Anthony.
 Publisher: Woodhead, Cambridge, UK.
 CODEN: 64TXAU
 AU Cuevas, B.; Bodie, B.; Wang, C.; Koljonen, M.
 AN 1997:498246 HCAPLUS
 DN 127:123139
 OREF 127:23735a,23738a

L49 ANSWER 67 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI A method for selecting xylanases useful for bleach boosting Eucalyptus
 kraft pulp
 SO Biotechnology in the Pulp and Paper Industry: Recent Advances in Applied
 and Fundamental Research, Proceedings of the International Conference on
 Biotechnology in the Pulp and Paper Industry, 6th, Vienna, June 11-15,
 1995 (1996), Meeting Date 1995, 111-114. Editor(s): Srebotnik, Ewald;
 Messner, Kurt. Publisher: Facultas-Universitaetsverlag, Vienna, Austria.
 CODEN: 63OUAN
 AU Dunlop, R. W.; Wang, B.; Ball, D.; Kumar, P.; Rouillo, A. B.; Falk, C. J.;
 Norman, K. W.
 AN 1996:682870 HCAPLUS
 DN 126:20286
 OREF 126:4171a,4174a

L49 ANSWER 68 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI A thermostable xylanase from *Thermomonospora fusca* and
 the gene encoding it
 SO PCT Int. Appl., 31 pp.
 CODEN: PIXXD2
 IN Wilson, David B.; Jung, Elyse D.; Chngas, Gurdev S.; Irvin, Diana C.
 AN 1995:721378 HCAPLUS
 DN 123:106519

OREF	123:18863a,18866a				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9512668	A1	19950511	WO 1994-US12743	19941104
	W: FI, JP, NO				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP	728197	A1	19960828	EP 1995-900534	19941104
	R: DE, DK, GB, NL				
FI	9601885	A	19960703	FI 1996-1885	19960503
L49	ANSWER 69 OF 89	SCISEARCH	COPYRIGHT (c) 2008 The Thomson Corporation on STN	DUPLICATE 29	
TI	CHARACTERIZATION OF THE RECOMBINANT XYLANASES IN ESCHERICHIA-COLI FROM AN ALKALIPHILIC THERMOPHILIC BACILLUS SP NCIM-59				
SO	ENZYME AND MICROBIAL TECHNOLOGY, (NOV 1995) Vol. 17, No. 11, pp. 972-976. ISSN: 0141-0229.				
AU	KULKARNI N (Reprint); CHAUTHAIWALE J; RAO M				
AN	1995:825957 SCISEARCH				
L49	ANSWER 70 OF 89	LIFESCI	COPYRIGHT 2008 CSA on STN		
TI	Production of xylanase by thermophilic Melanocarpus albomyces IIS-68				
SO	PROCESS BIOCHEM., (1995) vol. 30, no. 8, pp. 705-709. ISSN: 0032-9592.				
AU	Jain, A.				
AN	96:42393 LIFESCI				
L49	ANSWER 71 OF 89	HCAPLUS	COPYRIGHT 2008 ACS on STN		
TI	Cloning, sequencing and expression of an alkaline-tolerant xylanase gene from the extreme thermophile Dictyoglomus thermophilum sp. Rt46B.1. Potential for use as a kraft pulp pre-bleaching aid				
SO	International Symposium on Wood and Pulping Chemistry, 8th, Helsinki, June 6-9, 1995 (1995), Volume 2, 397-402 Publisher: Gummerus Kirjapaino Oy, Jyväskylä, Finland. CODEN: 65KDAY				
AU	Gibbs, Moreland D.; Bergquist, Peter L.				
AN	1997:793354 HCAPLUS				
DN	128:85703				
OREF	128:16660h,16661a				
L49	ANSWER 72 OF 89	HCAPLUS	COPYRIGHT 2008 ACS on STN		
TI	Hemicellulolytic enzymes from extremely thermophilic bacteria - applications of molecular genetics to pulp bleaching				
SO	International Symposium on Wood and Pulping Chemistry, 8th, Helsinki, June 6-9, 1995 (1995), Volume 1, 263-268 Publisher: Gummerus Kirjapaino Oy, Jyväskylä, Finland. CODEN: 65KDAY				
AU	Bergquist, P. L.; Gibbs, M. D.; Saul, D. J.; Te'o, V. S. J.; Reeves, R. A.; Morris, D.				
AN	1997:793220 HCAPLUS				
DN	128:85647				
OREF	128:16645a,16648a				
L49	ANSWER 73 OF 89	SCISEARCH	COPYRIGHT (c) 2008 The Thomson Corporation on STN	DUPLICATE 30	
TI	Purification and characterization of a thermophilic alkaline xylanase from thermoalkaliphilic Bacillus sp strain TAR-1				
SO	JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, (4 DEC 1995) Vol. 1, No. 1, pp. 7-15.				

ISSN: 1381-1177.

AU Nakamura S (Reprint); Ishiguro Y; Nakai R; Wakabayashi K; Aono R;
Horikoshi K
AN 1996:52298 SCISEARCH

L49 ANSWER 74 OF 89 LIFESCI COPYRIGHT 2008 CSA on STN
TI Five thermostable xylanases from *Microtetraspora*
flexuosa for use in delignification and/or bleaching of pulp
SO (1995) . US Patent 543/992; US Cl. 435/200 435/252.1 435/278 435/822
536/124.
AN 97:5176 LIFESCI

L49 ANSWER 75 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Thermostable alkaline endo-1,4-beta-D-
xylanase production;
from *Bacillus* sp., for use in pulping and the paper industry
AN 1994-07122 BIOTECHDS
PI JP 06062839 8 Mar 1994

L49 ANSWER 76 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI New xylanase;
Bacillus sp. thermostable and alkalistable native
or recombinant endo-1,4-beta-D-xylanase production and
purification for use in the food, feedstuff and pulp industries
AN 1994-05939 BIOTECHDS
PI WO 9404664 3 Mar 1994

L49 ANSWER 77 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI New *Bacillus* sp. AC13 with novel enzyme composition;
thermostable alkaline protease, endo-1,4-beta-D-
xylanase and cellulase production for use in surfactant
composition, lignocellulose pulp treatment, etc.
AN 1994-03564 BIOTECHDS
PI WO 9401532 20 Jan 1994

L49 ANSWER 78 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Thermostable alkaline xylanases produced by
alkaliphilic strains of *Bacillus* spp.
SO Kami Pa Gikyoshi (1994), 48(9), 1148-66
CODEN: KAGIAU; ISSN: 0022-815X
AU Aono, Rikio
AN 1995:393677 HCAPLUS
DN 122:233924
OREF 122:42607a,42610a

L49 ANSWER 79 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 32
TI TCF MILL TRIAL ON SOFTWOOD PULP WITH KORSNAS THERMOSTABLE AND
ALKALINE STABLE XYLANASE T6
SO FEMS MICROBIOLOGY REVIEWS, (MAR 1994) Vol. 13, No. 2-3, pp. 365-368.
ISSN: 0168-6445.
AU LUNDGREN K R (Reprint); BERGKVIST L; HOGMAN S; JOVES H; ERIKSSON G;
BARTFAI T; VANDERLAAN J; ROSENBERG E; SHOHAM Y
AN 1994:207505 SCISEARCH

L49 ANSWER 80 OF 89 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
STN DUPLICATE 33
TI THERMOPHILIC ALKALINE XYLANASE FROM NEWLY
ISOLATED ALKALIPHILIC AND THERMOPHILIC *BACILLUS* SP
STRAIN TAR-1
SO BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY, (JAN 1994) Vol. 58, No. 1, pp.
78-81.

ISSN: 0916-8451.

- AU NAKAMURA S (Reprint); NAKAI R; WAKABAYASHI K; ISHIGURO Y; AONO R;
HORIKOSHI K
AN 1994:101647 SCISEARCH
- L49 ANSWER 81 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Thermotoga maritima, Thermotoga neopolitana and Thermotoga thermarum
recombinant thermostable endo-1,4-beta-D-xylanase
production and characterization;
application in delignification and bleaching
AN 1993-14743 BIOTECHDS
PI WO 9319171 30 Sep 1993
- L49 ANSWER 82 OF 89 MEDLINE on STN DUPLICATE 34
TI Cloning and extracellular expression in Escherichia coli of
xylanases from an alkaliphilic thermophilic
Bacillus sp. NCIM 59.
SO FEMS microbiology letters, (1993 Apr 15) Vol. 108, No. 3, pp. 297-302.
Journal code: 7705721. ISSN: 0378-1097.
AU Shendye A; Rao M
AN 1993292908 MEDLINE
- L49 ANSWER 83 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
TI A thermostable extracellular xylanase from
alkalophilic Bacillus sp. NG-27
SO Biotechnology Letters (1992), 14(11), 1045-6
CODEN: BILED3; ISSN: 0141-5492
AU Gupta, N.; Vohra, R. M.; Hoondal, G. S.
AN 1993:54852 HCAPLUS
DN 118:54852
OREF 118:9716h,9717a
- L49 ANSWER 84 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Production and characterization of a xylanase from a phytopathogenic
fungus, Bipolaris sorokiniana;
alkalophilic, thermostable endo-1,4-beta-D-xylanase
isolation, of potential use in the pulp and paper industry (conference
paper)
SO Prog.Biotechnol.; (1992) 7, 529-33
CODEN: PBITE3
AU Karjalainen R; Peltonen S; Kajander O; Niku-Paavola M L
AN 1994-10139 BIOTECHDS
- L49 ANSWER 85 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Comparison of thermostable xylanases having optimal
activities at acidic, neutral, and alkaline pH values;
recombinant endo-1,4-beta-D-xylanase preparation by
thermophilic bacterium gene expression in Thermoanaerobacter
ethanolicus; potential enhanced ethanol production (conference
abstract)
SO Abstr.Gen.Meet.Am.Soc.Microbiol.; (1992) 92 Meet., 312
AU De Blois S; Wiegell J
AN 1992-09381 BIOTECHDS
- L49 ANSWER 86 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Extremely thermophilic cellulose and hemicellulose degrading bacteria
including isolates of the genus Dictyoglomus;
thermostable endo-1,4-beta-D-xylanase
characterization from Thermoanaerobium sp., Clostridium
thermo-hydrosulfuricum and Dictyoglomus thermophilum
(conference abstract)
SO Thermophiles Sci.Technol.; (1992) 54

CODEN: 9999R
 AU Mathrani I; Sonne-Hansen J; Nielsen P; Ahring B
 AN 1994-08890 BIOTECHDS

L49 ANSWER 87 OF 89 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI High-molecular weight substance-degrading enzymes-inducing factor and its
 gene cloning
 SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF
 IN Imanaka, Tadayuki; Nishiya, Yoshiaki; Sogabe, Yukihiro
 AN 1991:529125 HCAPLUS
 DN 115:129125
 OREF 115:21997a,22000a

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03061489	A	19910318	JP 1989-194307	19890728
	JP 07067392	B	19950726		

L49 ANSWER 88 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
 TI Production and characterization of xylanase from Bacillus
 thermoalkalophilus grown on agricultural wastes;
 thermostable endo-1,4-beta-D-xylanase preparation
 on rice husk or bagasse culture medium; lignocellulose degradation
 SO Appl.Microbiol.Biotechnol.; (1990) 34, 1, 141-44
 CODEN: EJABDD
 AU Rajaram S; *Varma A
 AN 1991-04701 BIOTECHDS

L49 ANSWER 89 OF 89 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
 TI Novel thermostable endo-1,4-beta-D-xylanase
 preparation;
 purification from Bacillus sp. culture
 AN 1990-05323 BIOTECHDS
 PI JP 01309684 14 Dec 1989

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	314.08	314.71

STN INTERNATIONAL LOGOFF AT 09:44:19 ON 09 DEC 2008